

ISO SC4/WG10 STEP Modularization
PWI Status Report

London Workshop

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Agenda

- **STEP Modularization PWI Accomplishments Since San Francisco**
- **Review Project Plan Status**

Accomplishments Since **San Francisco**

- **Supporting nominated teams**
 - **Supported a workshop with nominated projects**
 - **PDES, Inc. Modules Team**
 - **GD&T, DFT, Solid Model Construction History, DDE, PDM**
 - **David Leal and Keith Hunten on EA**
 - **Working session with Shape Appearance and Layers developers**
 - **Expect 9 modules will be the first submitted TSs in July**
 - **SELECT type extension issue raised again**
 - **Workaround by remodel ARM works in this case but will not in many cases (e.g. management resource assignments)**
 - **Proposal coming later during “Impact Papers” discussion**

Accomplishments Since **San Francisco(2)**

- **STEP Modularization Strategy**
 - **Harmonization Team Concepts**
 - **Held a small group discussion on Harmonization Team and NIST Repository after AM team workshop**
 - **David Price, Allison Feeney, Steve Chilcott, Josh Lubell, Eliot Kimber, others**
 - **See “concerns with harmonization later”**
 - **Josh Lubell presentation on Modules Repository Plan**
 - **Update to AM Development Points within the AP Development Process**
 - **Realign with published AP Development Guidelines N535**
 - **Incorporate harmonization process/infrastructure ideas**

Accomplishments Since **San Francisco(3)**

- **SSID kicked off**
 - **This project is now scoped beyond STEP Modularization PWI deliverable but still needs to be considered as a deliverable of this team**
- **Produced Impact Papers outline for this week**
- **Started discussions among SC4 conveners on where modules belong : WG10, WG12, WG3?**
 - **Some modules in JWG9, WG3 and some modules in WG12**
 - **QC maintains guidelines and process documents**
 - **STEP Modularization PWI supports all until turnover to appropriate WG or team**

Project Plan Status

As of April 19, 1999

Original PWI First Set of Deliverables **and Dates from Bad Aibling**

- **10/97 - 12/98 AM Development Guidelines**
- **4/98 - 12/98 AM Validation Guidelines**
- **5/98 - 12/98 AM/AP Integration/Harmonization Guidelines**
- **10/97 - 12/98 AP using AM Development Guidelines**
- **6/97 - 12/98 Overview Paper and Presentation**

Original PWI Final Set of Deliverables and Dates(1)

- **3/97 - 6/99 Framework for AP/AM Categorization**
- **6/97 - 6/99 At least 2 example AM suites from different industries**
- **10/97 - 6/99 Example AP using AM**
- **10/97 - 6/99 AM Catalogue example/demonstrator**
- **10/98 - 6/99 Proposal for SC4 support processes**
- ***6/99 Draft Part 1 amendment***

Original PWI Final Set of Deliverables and Dates(2)

- **7/98 - 6/99 Impact papers**
 - **Integrated and Common Resources**
 - **Implementation Methods**
 - **EXPRESS-X**
 - **EXPRESS-2**
 - **WG10 Data Architecture PWI**
 - **Vendors**
 - **Users**

Status of Deliverables(1)

- **12/98 AM Development Guidelines**
 - Now “Application Module Development Points within the Application Protocol Development Process”
 - One update since San Francisco
- **12/98 AM Validation Guidelines**
 - Initial IDEF activity model developed last September
 - First draft was planned for review at November workshop but not completed
- **12/98 AM/AP Integration/Harmonization Guidelines**
 - Now “Application Module Development Points within the Application Protocol Development Process”
 - See AM Development Guideline above

Status of Deliverables(2)

- **12/98 Guidelines for the content of application protocols using application modules**
 - No update since San Francisco
- **12/98 Overview Paper and Presentation**
 - No update since San Francisco

Status of Deliverables(3)

- **6/99 Framework for AP/AM Categorization**
 - “Now Industrial Framework Model”
 - Published revision 4Q98, reviewed at San Francisco
 - At San Francisco, Vaughan/Ishikawa started SSID
 - On the agenda for this workshop
- **6/99 At least 2 example AM suites from different industries**
 - At San Francisco, PDES, Inc. modules and EACM became “nominated” projects
 - Shipbuilding, EA, AP219 and Test Properties on the agenda for this workshop
- **6/99 Example AP using AM**
 - PDES Inc. will produce one on PDM

Status of Deliverables(4)

- **6/99 AM Catalogue example/demonstrator**
 - No update since San Francisco
 - See SSID
- **6/99 Proposal for SC4 support processes**
 - David Price taking ownership of this
 - Initial concept : Harmonization team
 - Recent discussions : Harmonization workshops evolving to a Harmonization process with supporting mechanisms so that workshops less of a requirement
 - “Which WG?” discussions started among WG10, WG3 and WG12 leadership

Status of Deliverables(5)

- ***6/99 Draft Part 1 amendment***
 - No owner identified
- **6/99 Impact paper Integrated and Common Resources**
 - No owner identified
- **6/99 Impact paper Implementation Methods**
 - No owner identified
- **6/99 Impact paper EXPRESS-X**
 - No owner identified
- **6/99 Impact paper EXPRESS-2**
 - No owner identified
 - First input based on working with AM team available this week

Status of Deliverables(6)

- **6/99 Impact paper WG10 Data Architecture PWI**
 - No owner identified
- **6/99 Impact paper on Vendors**
 - No owner identified
 - Some input from PDES, Inc. STEPnet vendors based on 2 hour workshop last September
- **6/99 Impact paper on Users**
 - No owner identified
- **All Impact Papers on agenda for this week**

Issues

- **From Pre-PWI Orlando plan 1Q98**
 - **“ARM-less module”**
 - **Extensions concept included in approved SF resolution**
 - **Need work on content guidelines**
 - **Behind on workshops with interested industry organizations**
 - **Shipbuilding represented at Oslo, Charleston, this week**
 - **Received input from Process/Plant but no workshop participation**
 - **EA supported recently**
 - **Hoped for completion 4Q98, now hoping for 4Q99**

PWI Plans(1)

- **First draft of several impact papers**
- **Supporting NIST Modules Repository work and harmonization infrastructure ideas**
 - **To make this happen, provide requirements and resources to EXPRESS/XML NWI**
- **First draft of Guidelines for the Content of Application Extensions**
- **See EXPRESS-2 proposal, perhaps new activity there**

PWI Plans(2)

- **Continue to support industry**
 - **Expecting to support AP/AM team workshops**
 - **Nominated projects**
 - **EA**
 - **PDES Inc team**
 - **Second of their AP/AM Development Team workshops in late May**
 - **Support submission of first modules as TS this summer**
 - **New projects**
 - **Shipbuilders - follow-up after this week**
 - **Process/Plant**
 - **Others identified this week**

PWI Plans(3)

- **No formal Modularization PWI workshop planned for Lillehammer**
 - **Focusing on supporting AP/AM teams and on supporting EXPRESS/XML team at Lillehammer**
- **Expecting another Modularization PWI workshop between Lillehammer and New Orleans**
- **Hoping to have all deliverables completed for New Orleans**
 - **Perhaps a letter ballot starting at New Orleans?**
 - **Formally close the PWI at the 1Q2000 ISO meeting**